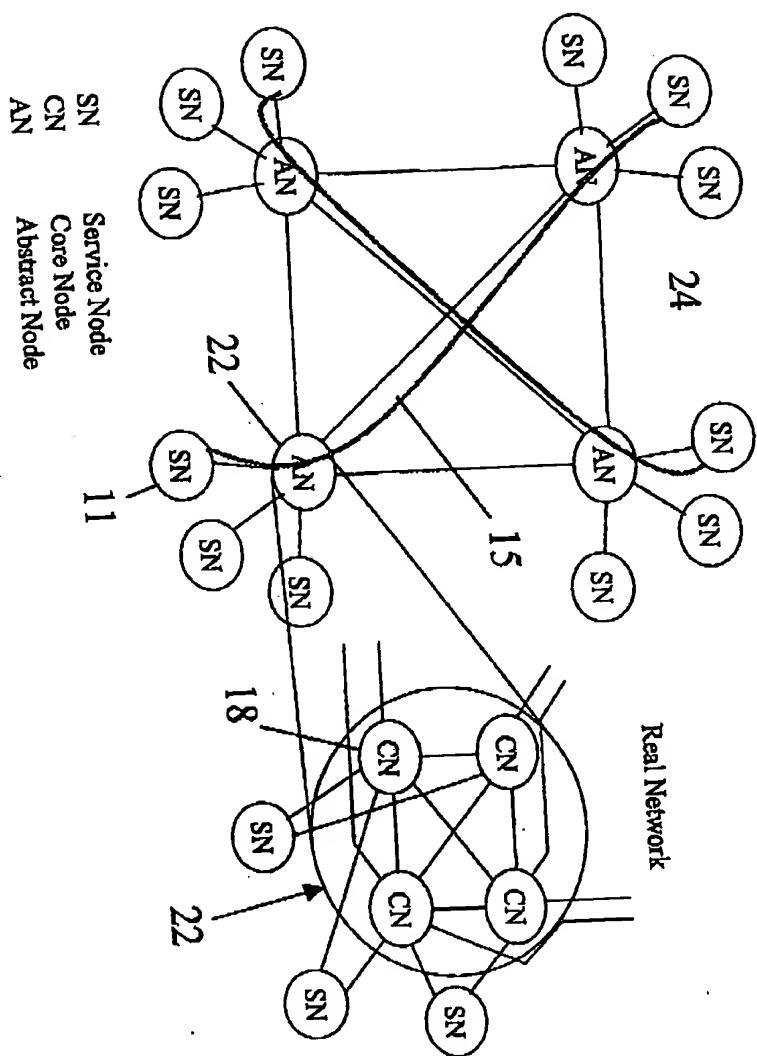


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Fig.2

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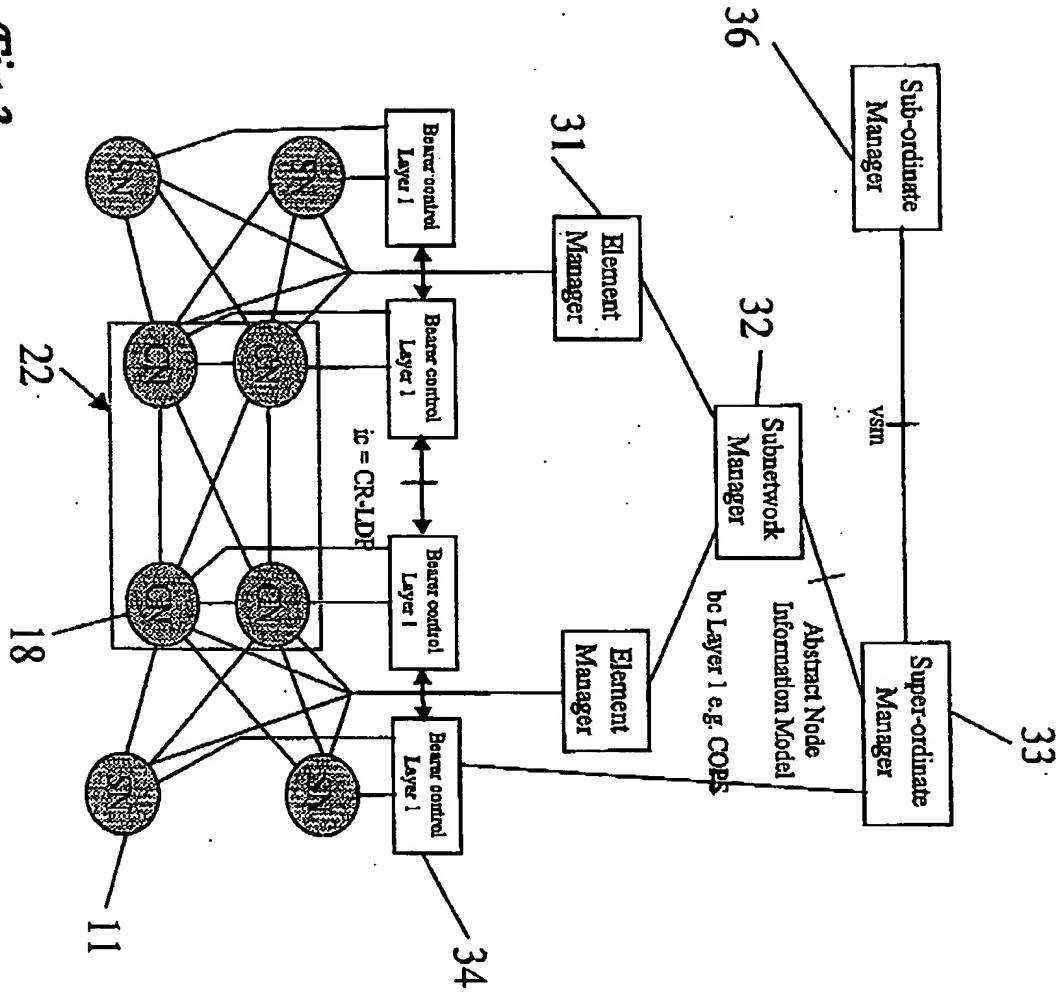
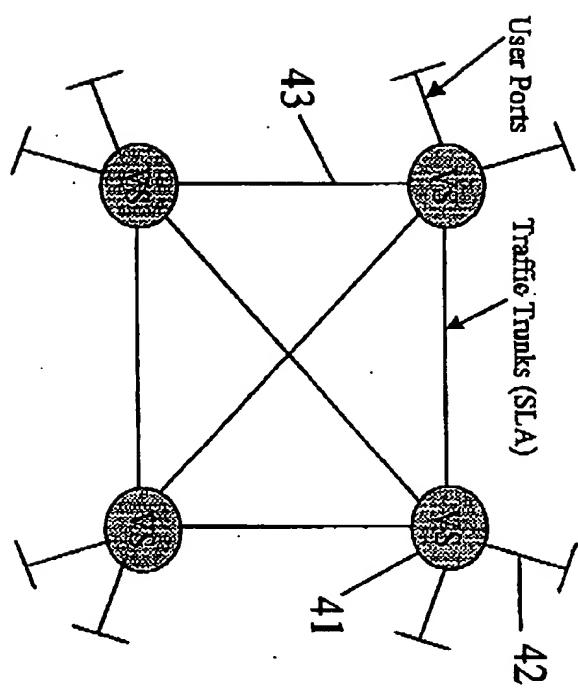
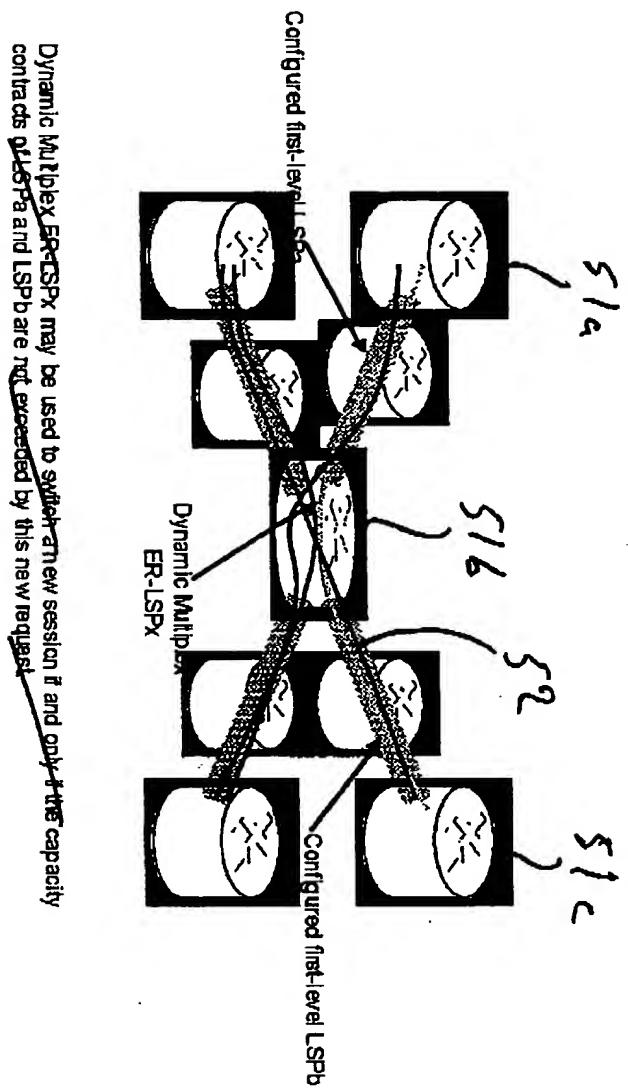


Fig.4



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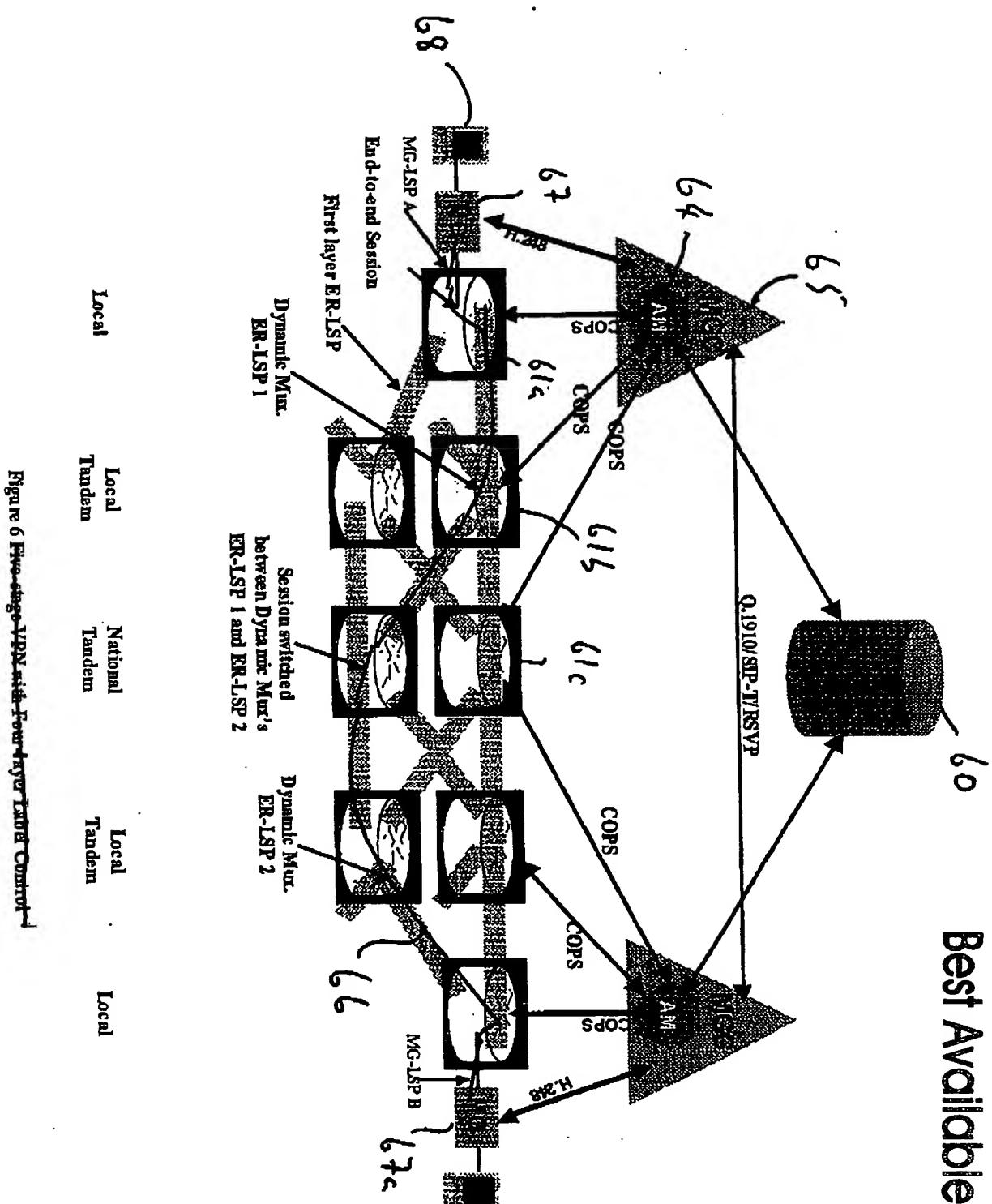


Dynamic Multiplex ER-LSRx may be used to switch a new session if and only if the capacity contracts ~~LSRx-a~~ and LSPb are not exceeded by this new request.

Figure 5 By-multiplex ER-LSRx

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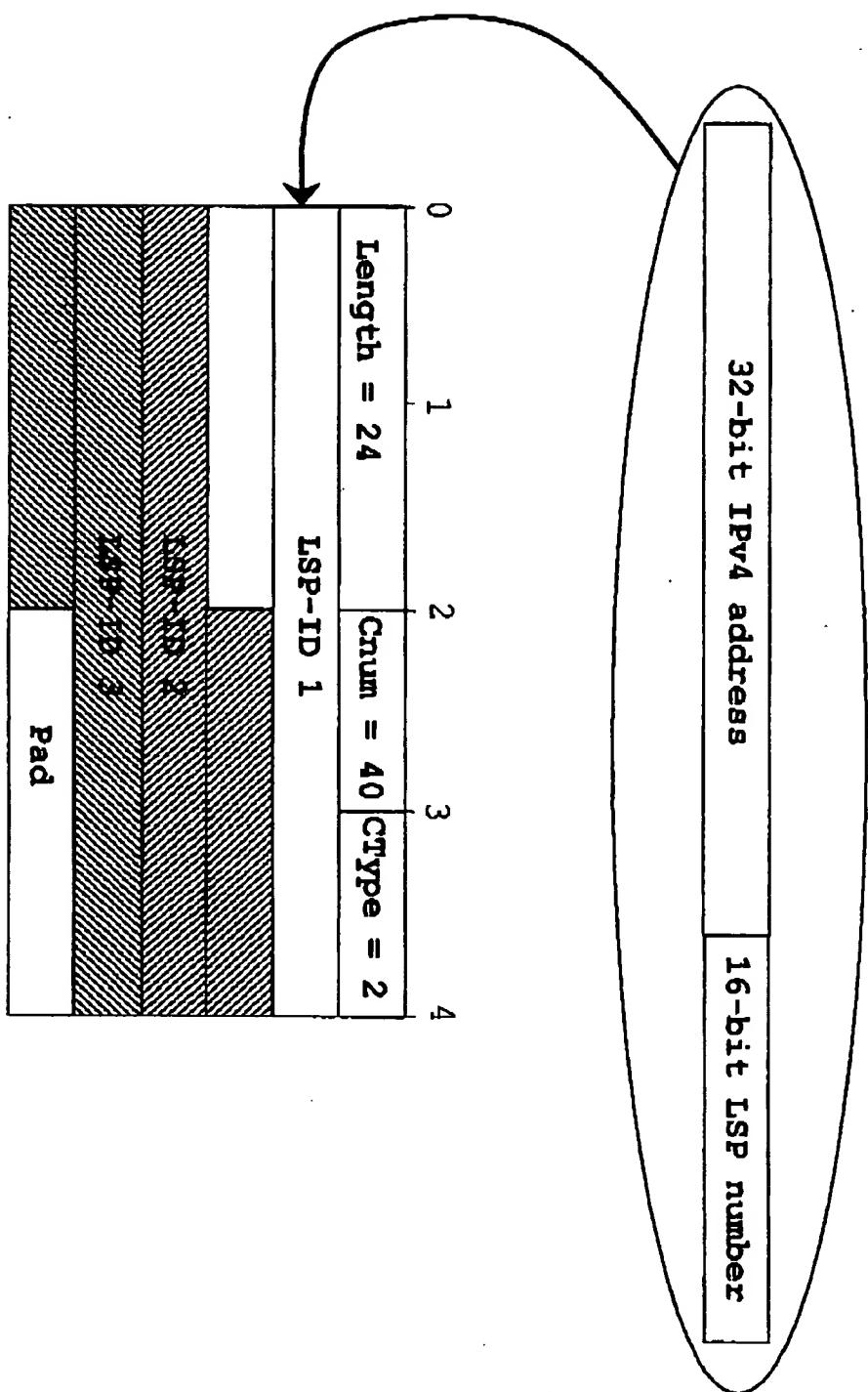


Figure 7 COPS Specific Object for LSP-IDs

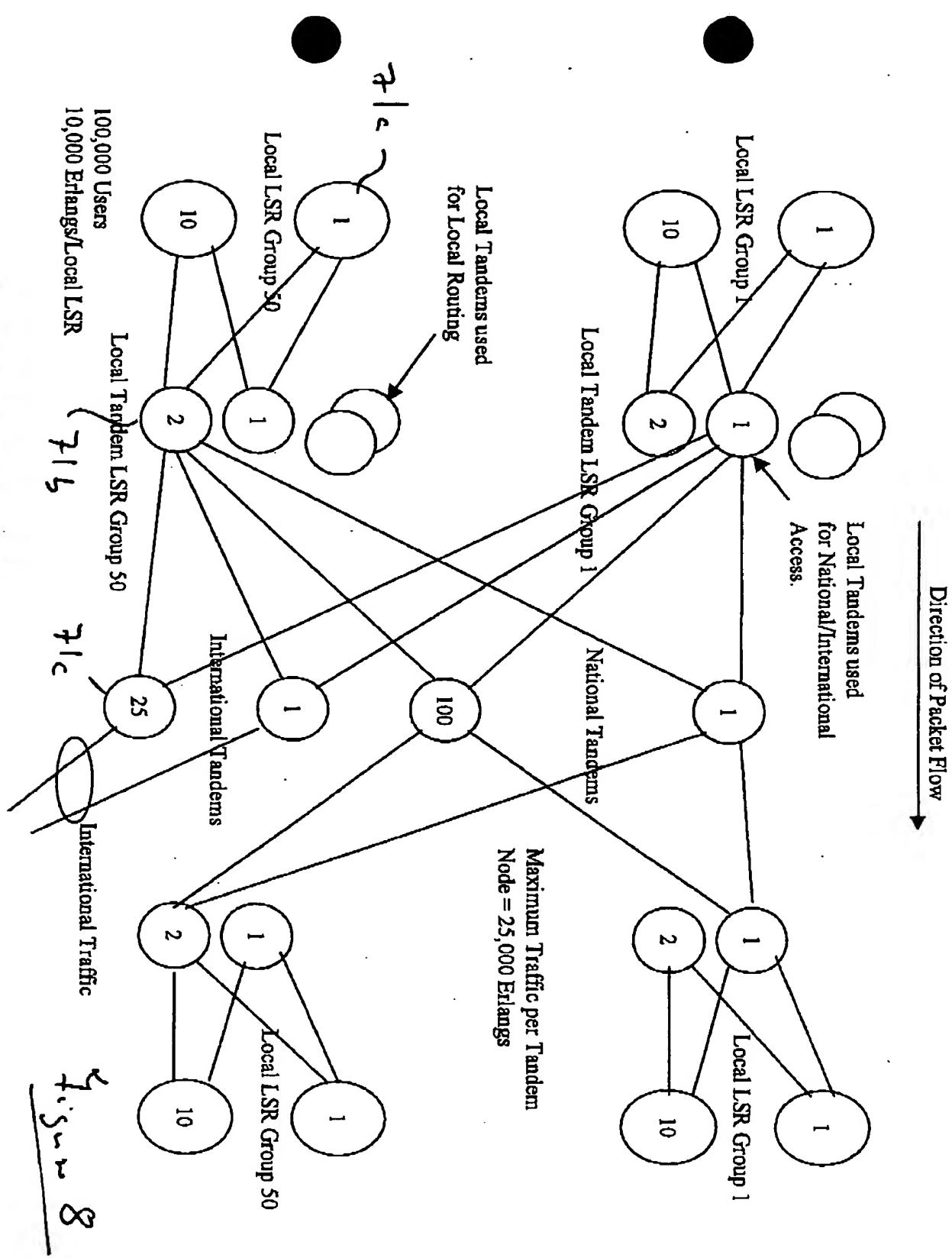
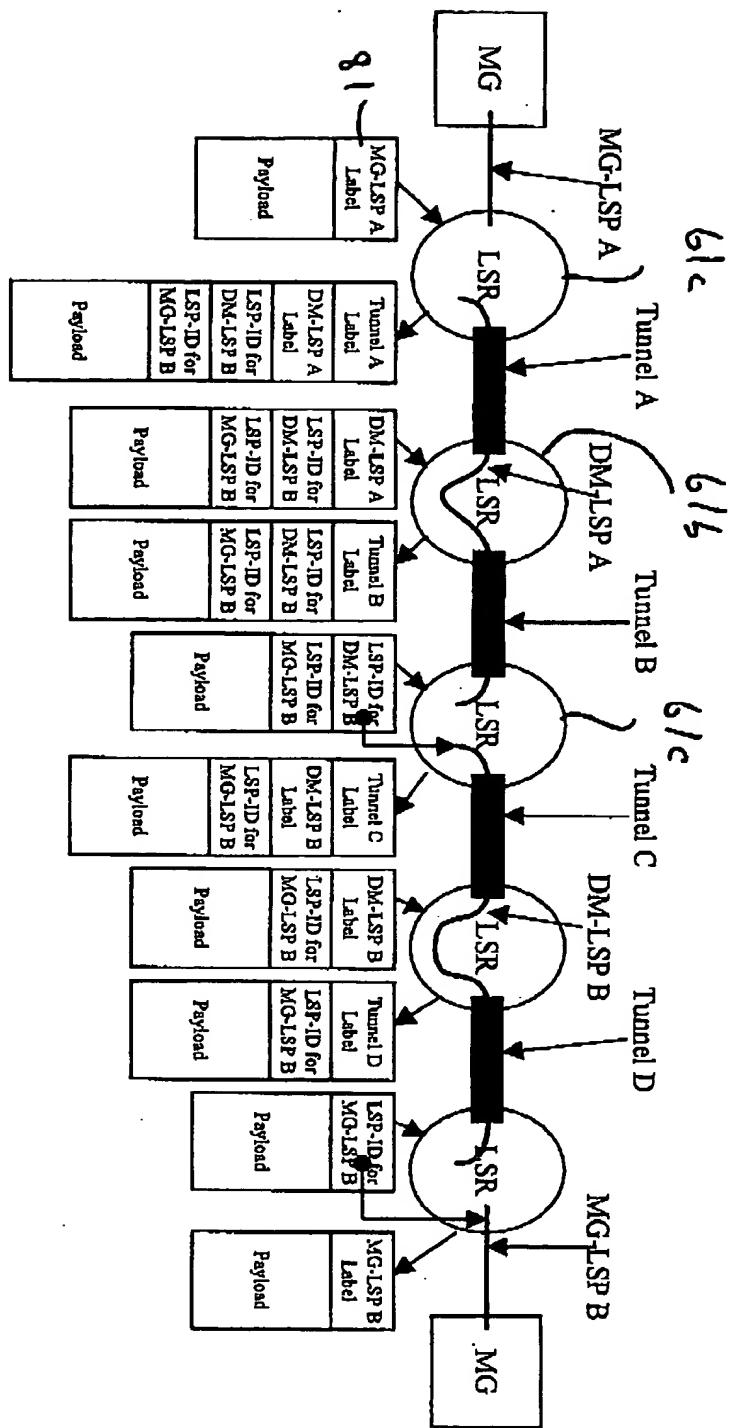


Figure 7. MP3 Network for Session Switching for Fifty Million US Users plus Fifty Million International Users



Each Tunnel is assumed to perform penultimate hop popping at the core LSR prior to the VPN LSRs illustrated above

Figure 8: Packet Formats for Ingress and Egress for Five-stage MPLS Network

Fig-8-9

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LSP-ID List:

MG-LSP A, DM-LSP Ax, Ay, Az

(MG-LSP A, DM-LSP A, DM-LSP B, MG-LSP B)

1801/SIB-T/R SVB1 SB-R (list)

QoS/RSVP/SP-IDL list

64

65

Resource Utilisation on DM-LSP A

Resource Allocation on DM-LSP A

Resource Utilisation on DM-LSP B

Resource Allocation on DM-LSP B

The diagram illustrates the connection between MGs (Multipoint Gateways) and COPS (Call Processing System) via LSRs (Label Switching Routers) and tunnels.

Top Path: MG → MG-LSP A → LSR → Tunnel A → DML-LSP A → LSR → Tunnel B → DML-LSP B → LSR → Tunnel C → MG-LSP B → MG.

Bottom Path: MG → MG-LSP B → LSR → Tunnel D → DML-LSP B → LSR → Tunnel C → DML-LSP A → LSR → Tunnel B → MG-LSP A → MG.

Annotations: The diagram includes several annotations: 'H.248' at the top and bottom, 'COPS' at the top and bottom, 'Tunnel A', 'Tunnel B', 'Tunnel C', and 'Tunnel D' for the physical links; 'LSR' next to each LSR node; 'DML-LSP A' and 'DML-LSP B' for the label switched paths; and 'MG-LSP A' and 'MG-LSP B' for the multipoint label switched paths. The LSR nodes are represented by circles with a 'U' symbol inside, and the tunnel segments are represented by thick black lines.

Figures